

DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
RESOURCE REQUEST FORM (RRF)

O.M.B. No. 1660-0002
Expires May 31, 2017

PAPERWORK BURDEN DISCLOSURE NOTICE


Public reporting burden for this form is estimated to average 20 minutes per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and submitting this form. This collection of information is required to obtain or retain benefits. You are not required to respond to this collection of information unless it displays a valid OMB control number. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington, DC 20472-3100, Paperwork Reduction Project (1660-0047). **NOTE: Do not send your completed form to this address.**

I. REQUESTING ASSISTANCE (To be completed by Requestor)

1. Requestor's Name (Please print) Kelly Cook	2. Title Deputy Director, Critical Infrastructure Division	3. Phone No. 512-563-3890
4. Requestor's Organization Texas Commission on Environmental Quality	5. Fax No.	6. E-Mail Address kelly.cook@tceq.texas.gov

II. REQUESTING ASSISTANCE (To be completed by Requestor)

1. Description of Requested Assistance:
Requesting ESF-10 assistance for ASPECT plane to deploy to conduct chemical detection and identification and map chemical plumes in the atmosphere over the Houston Ship Channel Industrial area, the Beaumont Industrial Complex and the Corpus Christi Industrial complex.
(specific maps to be provided by TCEQ). Visible imagery should also be collected. Request that flyovers be conducted of each city twice per

2. Quantity	3. Priority <input type="checkbox"/> Lifesaving <input checked="" type="checkbox"/> Life Sustaining <input type="checkbox"/> High	<input type="checkbox"/> Normal	4. Date and Time Needed 2/27/2021 8:00am
5. Delivery Site Location Beaumont/Port Author, TX Houston, TX Corpus Christi, TX		6. Site Point of Contact (POC) Kelly Cook	
		7. 24 Hour Phone No. 512-563-3890	8. Fax No.
9. State Approving Official Signature Gisela Ryan-Bunger, Division Chief, Response 			10. Date and Time 02/26/2021

III. SOURCING THE REQUEST - REVIEW/COORDINATION (Operations Section Only)

1. <input type="checkbox"/> OPS Review by: _____ <input type="checkbox"/> LOG Review by: _____ <input type="checkbox"/> Other Coordination: _____ <input type="checkbox"/> Other Coordination: _____ <input type="checkbox"/> Other Coordination: _____	2. Source: <input type="checkbox"/> Donations <input type="checkbox"/> Other (Explain) <input type="checkbox"/> Requisitions <input type="checkbox"/> Procurement <input type="checkbox"/> Interagency Agreement <input type="checkbox"/> Mission Assignment	3. Assigned to: ESF/OFA: _____ RSF/OFA: _____ Other: _____ Date/Time: _____
4. Immediate Action Required <input type="checkbox"/> Yes <input type="checkbox"/> No		

IV. STATEMENT OF WORK (Operations Section Only)

1. OFA Action Officer	2. 24 Hour Phone #	3. Fax #
4. FEMA Project Manager	5. 24 Hour Phone #	6. Fax #
7. Statement of Work <input type="checkbox"/> See Attached		
8. Estimated Completion Date		9. Estimated Cost

V. ACTION TAKEN (Operations Section Only)

<input type="checkbox"/> Accepted	<input type="checkbox"/> Rejected	<input type="checkbox"/> Requestor Notified
Reason / Disposition		

RESOURCE REQUEST FORM (RRF)

TRACKING INFORMATION (FEMA Use Only)

ECAPS/NEMIS Task ID:	Resource Request #	Program Code/Event #	
Received by (Name and Organization)	State	Date/Time Received	<input type="checkbox"/> Originated as verbal

INSTRUCTIONS

Items on the Resource Request form that are not specifically listed are self-explanatory. Indicate "see attached" in any field for which additional space or more information is required.

I. Who is requesting assistance? Completed by requestor.

II. What needs to be done? Completed by requestor.

Description of Requested Assistance: Detail of resource shortfalls, statement of deliverable, or simply state problem/need.

Priority: The requestor's priority, which may differ from the priority in BOX III.

Site POC: The person at the delivery site coordinating reception and utilization of the requested resources. 24-hour contact information required.

If for Direct Federal Assistance (DFA), State Approving Official: Signature certifies that:

- (1) State and local governments cannot perform, nor contract for the performance of the requested work;
- (2) Work is required as a result of the event, not a pre-existing condition; and
- (3) The State is providing the required assurances found in 44 CFR, Section 206.208.

III. Action Review/Coordination (OPS Section Use Only): Completed by the Operations Section Chief or Resource Capability Branch Director.

Accept/Reject: Operations Section Chief or Resource Capability Branch Director accepts or rejects the request; provide reason if rejection. If request accepted, coordinates with others, i.e., Branch Directors or Group Supervisors, begins to determine best means of fulfilling request. All involved in coordination should check appropriate box and initial or print their name.

Assigned to: Operations Section Chief or Resource Capability Branch Director assigns tasks origination, may indicate the OFA Action Officer. Operations Section Chief may also indicate the Action Officer if known, or tasked organization may make this assignment. This may be Emergency Support Function, internal FEMA Organization (i.e., Logistics), or other organization.

Date/Time Assigned: Operations Section Chief or Resource Capability Branch Director provides date and time of when sourcing should begin.

IV. Statement of Work (OPS Section Use Only): Completed by the Operations Section Chief or Resource Capability Branch Director.

OFA Action Officer: Ops Section Chief obtains from OFA if request fulfilled by a MA; 24-hr phone/fax required. Information used in eCAPS.

FEMA Project Manager: Provided by Operations Section Chief; a Region PFT; 24-hr phone/fax required. Information used in eCAPS.

Statement of Work: Description of tasks to be performed. Could be to assess a problem and report back, or could be to proceed with a specific action. If 40-1 or MA, this goes in "justification" tab in eCAPS.

V. Action Taken (OPS Section Use Only): Completed by Operations Section Chief, Resource Capability Branch Director, MA Unit or Logistics.

Resource Request Results: Ops Section Chief, Resource Support Section Chief, MA Unit, or LOG should note what type of document the action resulted in by "checking" the appropriate box i.e., Mutual Aid, Donations, Requisition, Procurement, IA, MA, Other. If "Other" is selected write in appropriate response or state "see below" and give detail description in "Disposition" field. "Disposition" field should note steps taken to complete the Action, and personnel, sub-tasked agencies, contracts and other resources utilized.

TRACKING INFORMATION. Completed by Action Tracker. Required for all requests.

II. REQUESTING ASSISTANCE, Block #1 Continued:

Requesting ESF-10 assistance for ASPECT plane to deploy to conduct chemical detection and identification and map chemical plumes in the atmosphere over the Houston Ship Channel Industrial area, the Beaumont Industrial Complex and the Corpus Christi Industrial complex. (specific maps to be provided by TCEQ). Visible imagery should also be collected. Request that flyovers be conducted of each city twice per day (once at a minimum) beginning 2/27/2021 for a period not to exceed 7 days. Data and photographs should be evaluated and posted to electronic website.

Beaumont-Port Arthur Designated Survey Areas



Disclaimer: This map was generated by the
Office of Air Quality Division of the
Texas Commission on Environmental Quality
and is for informational purposes and may
not have been prepared for or be suitable for
legal, engineering, or surveying purposes. It
does not represent an on-the-ground survey
and represents only the approximate relative
location of property boundaries. For information
concerning this map, contact the Air Quality
Division at (512) 939-1450.





Protecting Texas by
Reducing and
Preventing Pollution

Houston-Galveston-Brazoria

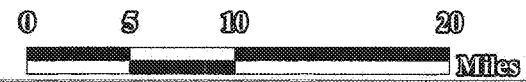
Designated Survey Areas

Texas Commission on Environmental Quality
Office of Air
Air Quality Division
P.O. Box 13087 (MC-164)
Austin, Texas 78711-3087

January 16, 2019



Disclaimer: This map was generated by the
Office of Air Quality Division of the
Texas Commission on Environmental Quality
and is for informational purposes only.
It has not been prepared for or be suitable for
legal engineering or surveying purposes. It
does not represent an on-the-ground survey
and represents only the approximate relative
location of property boundaries. For information
concerning this map, contact the Air Quality
Division at (512) 249-1459.



ED_005581A_00000008-00005



Protecting Texas by
Reducing and
Preventing Pollution

Corpus Christi Designated Survey Areas

Texas Commission on Environmental Quality
Office of Air
Air Quality Division
P.O. Box 13987 (MC-164)
Austin, Texas 78711-3987

January 16, 2020



Disclaimer: This map was generated by the Office of Air Quality Division of the Texas Commission on Environmental Quality and is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. For information concerning this map, contact the Air Quality Division at (512) 239-1439.

To: Carroll, Craig[Carroll.Craig@epa.gov]
Cc: R6 RRC[R6_RRC@epa.gov]; Zehner, Warren[zehner.warren@epa.gov]; Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]; Loesel, Matthew[loesel.matthew@epa.gov]
From: Kelly Cook[kelly.cook@tceq.texas.gov]
Sent: Sun 2/28/2021 3:45:47 PM (UTC)
Subject: Re: ASPECT report

Thanks, Craig.

Sent from my iPhone

On Feb 28, 2021, at 9:37 AM, Carroll, Craig <Carroll.Craig@epa.gov> wrote:

Morning Kelly,
Update below on ASPECT

Craig

Sent from my iPhone

Begin forwarded message:

From: "Loesel, Matthew" <loesel.matthew@epa.gov>
Date: February 27, 2021 at 9:31:03 PM CST
To: "Carroll, Craig" <Carroll.Craig@epa.gov>, "Foster, Nichole" <Foster.Nichole@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>
Cc: "Zehner, Warren" <zehner.warren@epa.gov>
Subject: ASPECT report

Due to cloud cover ASPECT flew at a lower level across all three areas. That limited the equipment they could use, but in my discussions with them, I said it was better to get some data rather than none. WE will have the map with the narrative in the morning. ASPECT was able to capture some images and they reported that no chemicals were detected with their FTIR. Below is their plan for tomorrow.

The plane has landed for the night since we can't take pictures in the dark. Our plan is to start back up at 7:30 AM tomorrow, and hopefully take off at 8:00 AM. The weather for tomorrow is looking similar to today for the most part. It is a good thing that we ended up in Corpus tonight, because it looks like we should have the best conditions there for the morning. The cloud ceiling is predicted to be ~1200 ft AGL (it is forecast to be 700 ft AGL in Houston at 8 AM). We will play it by ear like we did today and try to collect data in between clouds.

Matthew Loesel
U.S. EPA - Federal On-Scene Coordinator
1201 Elm Street
Suite 500 (65ED-EC)
Dallas, Texas 75270
(214) 738 0674 (mobile)
(214) 665 8544 (office)
loesel.matthew@epa.gov

To: Kelly Cook[kelly.cook@tceq.texas.gov]
Cc: Carroll, Craig[Carroll.Craig@epa.gov]; Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]
From: Loesel, Matthew[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F2136F67BD8644149EF4883722E4DA9A-LOESEL, MATT]
Sent: Mon 3/1/2021 10:28:18 PM (UTC)
Subject: ASPECT maps and Report

The Report and maps for ASPECT's flight on February 28, 2021 in support of the response to the 2021 Winter Storms is now available at <https://response.epa.gov/UriandViola>.

Please reach out to us with any questions. Thank you.

Matthew Loesel

U.S. EPA - Federal On-Scene Coordinator

1201 Elm Street

Suite 500 (65ED-EC)

Dallas, Texas 75270

(214) 738 0674 (mobile)

(214) 665 8544 (office)

loesel.matthew@epa.gov

To: Loesel, Matthew[loesel.matthew@epa.gov]
Cc: Carroll, Craig[Carroll.Craig@epa.gov]; Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]; Zehner, Warren[zehner.warren@epa.gov]
From: Kelly Cook[kelly.cook@tceq.texas.gov]
Sent: Mon 3/1/2021 3:09:26 PM (UTC)
Subject: Re: ASPECT

Thank you, Gentlemen!

Sent from my iPhone

On Mar 1, 2021, at 7:12 AM, Loesel, Matthew <loesel.matthew@epa.gov> wrote:

Based on the weather reports, ASPECT does not believe they will be able to fly today. The latest I have from them, they returned to Addison last night and will monitor weather but their belief was that due to the conditions, Tuesday will be their next flight. I did want to pass along the following information before we get the final data and maps from yesterday.

ASPECT detected very low level fugitive emissions (generally 1 ppm or less) at several locations in Corpus Christi.

	Location	Primary species	Site
1.	27.81 N -97.49 W	1-butene	Citgo Refinery and Chemicals
2.	27.82N - 97.42W	acetone(trace)	Nueces Bay Power Station
3.	27.81N -97.42W	various trace hydrocarbons	Flint Hills Resources, LP, East Plant
4.	28.81N -97.49W	butadiene (trace)	BTB Refining, LLC

I will pass along the report and the maps from yesterday as soon as they are finalized.

Thank you and please reach out to us with any questions.

Matthew Loesel
U.S. EPA - Federal On-Scene Coordinator
1201 Elm Street
Suite 500 (6SED-EC)
Dallas, Texas 75270
(214) 738 0674 (mobile)
(214) 665 8544 (office)
loesel.matthew@epa.gov

To: Carroll, Craig[Carroll.Craig@epa.gov]
Cc: R6 RRC[R6_RRC@epa.gov]; Zehner, Warren[zehner.warren@epa.gov]; Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]
From: Kelly Cook[kelly.cook@tceq.texas.gov]
Sent: Sun 2/28/2021 7:54:04 PM (UTC)
Subject: Re: ASPECT Maps and Report

Thank you.

Sent from my iPhone

On Feb 28, 2021, at 12:59 PM, Carroll, Craig <Carroll.Craig@epa.gov> wrote:

Sent from my iPhone

Begin forwarded message:

From: "Loesel, Matthew" <loesel.matthew@epa.gov>
Date: February 28, 2021 at 12:55:34 PM CST
To: "Gray, David" <gray.david@epa.gov>, "Stenger, Wren" <stenger.wren@epa.gov>, "Price, Lisa" <Price.Lisa@epa.gov>
Cc: "Carroll, Craig" <Carroll.Craig@epa.gov>, "Foster, Nichole" <Foster.Nichole@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>
Subject: ASPECT Maps and Report

The Report and maps for ASPECT's flight in support of the response to the 2021 Winter Storms is now available at <https://response.epa.gov/UriandViola>.

Please reach out to us with any questions. Thank you.

Matthew Loesel

U.S. EPA - Federal On-Scene Coordinator

1201 Elm Street

Suite 500 (65ED-EC)

Dallas, Texas 75270

(214) 738 0674 (mobile)

(214) 665 8544 (office)

loesel.matthew@epa.gov

To: Loesel, Matthew[loesel.matthew@epa.gov]
Cc: Carroll, Craig[Carroll.Craig@epa.gov]; Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]
From: Kelly Cook[kelly.cook@tceq.texas.gov]
Sent: Sun 2/28/2021 7:53:46 PM (UTC)
Subject: Re: ASPECT maps and Report

Thanks, you.

Sent from my iPhone

On Feb 28, 2021, at 12:59 PM, Loesel, Matthew <loesel.matthew@epa.gov> wrote:

The maps and report from yesterday's ASPECT flight is available at <https://response.epa.gov/UriandViola>.

ASPECT is wheels up in Corpus Christi, no flights were made this morning due to the weather and low cloud cover. The same weather is across the Gulf Coast and may hamper efforts this afternoon. We will keep you apprised of flight status.

If you have any questions, please feel free to reach out to us.

Matthew Loesel

U.S. EPA - Federal On-Scene Coordinator

1201 Elm Street

Suite 500 (65ED-EC)

Dallas, Texas 75270

(214) 738 0674 (mobile)

(214) 665 8544 (office)

loesel.matthew@epa.gov

Cc: Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]; Adams, Adam[Adams.Adam@epa.gov]; R6 RRC[R6_RRC@epa.gov]; anthony.buck@tceq.texas.gov[anthony.buck@tceq.texas.gov]; Michelle Havelka[michelle.havelka@tceq.texas.gov]; Jonathan Walling[jonathan.walling@tceq.texas.gov]; Cynthia Gandee[cynthia.gandee@tceq.texas.gov]; Richard Chism[Richard.Chism@tceq.texas.gov]; Brandy Brooks[brandy.brooks@tceq.texas.gov]; Melinda Johnston[melinda.johnston@tceq.texas.gov]
To: Kelly Cook[kelly.cook@tceq.texas.gov]
From: Carroll, Craig[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CF7900E73BFB429C9BF46DC3B22FC12C-CARROLL, CRAIG]
Sent: Sat 2/27/2021 2:36:06 PM (UTC)
Subject: Re: Draft ASPECT maps

Kelly,
Thanks for the clarifications. I did pass your responses below to the ASPECT staff last night.

Craig

Sent from my iPhone

On Feb 26, 2021, at 11:09 PM, Kelly Cook <kelly.cook@tceq.texas.gov> wrote:

Craig and Adam,
I included our answers in **red** below. Thank you for making this happen so quickly. You guys are so great to work with!!

From: Carroll, Craig <Carroll.Craig@epa.gov>
Sent: Friday, February 26, 2021 10:21 PM
To: Kelly Cook <kelly.cook@tceq.texas.gov>
Cc: Foster, Nichole <Foster.Nichole@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; R6 RRC <R6_RRC@epa.gov>
Subject: Fwd: Draft ASPECT maps

Kelly,

See questions below. Please advise as to how TCEQ would like issues below addressed. Thanks

Craig

Sent from my iPhone
Begin forwarded message:

From: "Taylor, Jillianne" <Taylor.Jillianne@epa.gov>
Date: February 26, 2021 at 9:59:33 PM CST
To: "Petersen, Chris" <petersen.chris@epa.gov>, "Foster, Nichole" <Foster.Nichole@epa.gov>
Cc: "Zehner, Warren" <zehner.warren@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>, "Loesel, Matthew" <loesel.matthew@epa.gov>, "Martin, John" <martin.john@epa.gov>, "Nguyen, Lyndsey" <Nguyen.Lyndsey@epa.gov>, "Carroll, Craig" <Carroll.Craig@epa.gov>
Subject: RE: Draft ASPECT maps

Hello Chris and Nicole,

We are working up our flight plans for this mission and we had a few questions that we hoped could get relayed back to the TCEQ for clarification.

1. Are there any specific RMP facilities that we should be focusing on? **No specific facility. Maybe focus priority on areas with larges grouping of facilities.** For example, the image below shows all

of the RMP sites that ASPECT surveyed in the Beaumont area after Hurricane Laura last summer (the yellow pins mark each site, sorry they are a bit hard to see). We covered 38 facilities, and because of some delays due to inclement weather, this took us 3 days to complete. If the goal is to cover multiple sites in each of the areas identified in the maps provided by TCEQ, it will likely take us 2-3 days to cover each city, and would make it very difficult to cover more than one city in a given day, unless we prioritized a few sites.

2. Is the goal more oriented towards getting more broad surveillance in the areas identified on the maps? **Yes, more broad surveillance is desired.** If this is the case, we may be able to meet the goal of covering all 3 cities in a given day. Would it be sufficient to fly over each block on the map with a goal of ~ 20% coverage, with no specific facility targets? **Yes**

3. Is there any information on specific chemicals of interest? **I think our main focus would be on VOCs, and identification of benzene if possible.** I've included our list of chemicals that are automatically detected by the ASPECT sensors. If we have information that there may be other chemicals present on a site that are not on this list, we can run extra checks in post-processing to look for those signatures. **This will be helpful. Thank you.**

<image002.jpg>

<image004.png>

We've looked at the forecast for tomorrow and right now it looks very likely that the cloud ceiling will be too low in the target locations for collecting chemical data until about 1200 CST. We will plan to take off around 10 AM with an estimated flight time to Beaumont of 2 hours. We will let you know if anything changes.

Please don't hesitate to reach out via email or phone if you have any questions.

Thank you all,
Jill

Jill Taylor
Atmospheric Scientist, ASPECT
CBRN Consequence Management Advisory Division
Environmental Protection Agency
1201 Elm St., Dallas, TX 75270
Work Cell: 214-406-9896

From: Petersen, Chris <petersen.chris@epa.gov>
Sent: Friday, February 26, 2021 7:04 PM
To: Taylor, Jillianne <Taylor.Jillianne@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: RE: Draft ASPECT maps

TCEQ only provided those maps and did not mentioned specific facilities. They wanted those areas monitored.

From: Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Sent: Friday, February 26, 2021 6:49 PM
To: Petersen, Chris <petersen.chris@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: RE: Draft ASPECT maps

Thank you, Chris! Do you know if they will be providing a list of facilities that they would like us to make sure we cover? GPS coordinates are very useful for us if they have them available.

Thank you,
Jill

From: Petersen, Chris <petersen.chris@epa.gov>
Sent: Friday, February 26, 2021 6:46 PM
To: Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>; Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: FW: Draft ASPECT maps

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Friday, February 26, 2021 6:41 PM
To: Carroll, Craig <Carroll.Craig@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Subject: FW: Draft ASPECT maps

Chris,
These are the areas, if possible, we would like for the ASPECT Flights. Thank you!!

From: Cynthia Gandee <Cynthia.Gandee@tceq.texas.gov>
Sent: Friday, February 26, 2021 6:15 PM
To: Kelly Cook <kelly.cook@tceq.texas.gov>
Cc: Jonathan Walling <jonathan.walling@tceq.texas.gov>
Subject: Draft ASPECT maps

These flyover maps are from FY20. Please let me know if you need anything else. Thanks for your help.

Cynthia

Cc: R6 RRC[R6_RRC@epa.gov]; Zehner, Warren[zehner.warren@epa.gov]; Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]
To: Kelly Cook[kelly.cook@tceq.texas.gov]
From: Carroll, Craig[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CF7900E73BFB429CBF46DC3B22FC12C-CARROLL, CRAIG]
Sent: Sun 2/28/2021 6:59:38 PM (UTC)
Subject: Fwd: ASPECT Maps and Report

Sent from my iPhone

Begin forwarded message:

From: "Loesel, Matthew" <loesel.matthew@epa.gov>
Date: February 28, 2021 at 12:55:34 PM CST
To: "Gray, David" <gray.david@epa.gov>, "Stenger, Wren" <stenger.wren@epa.gov>, "Price, Lisa" <Price.Lisa@epa.gov>
Cc: "Carroll, Craig" <Carroll.Craig@epa.gov>, "Foster, Nichole" <Foster.Nichole@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>
Subject: ASPECT Maps and Report

The Report and maps for ASPECT’s flight in support of the response to the 2021 Winter Storms is now available at <https://response.epa.gov/UriandViola>.

Please reach out to us with any questions. Thank you.

Matthew Loesel
U.S. EPA - Federal On-Scene Coordinator
1201 Elm Street
Suite 500 (6SED-EC)
Dallas, Texas 75270
(214) 738 0674 (mobile)
(214) 665 8544 (office)
loesel.matthew@epa.gov

To: Kelly Cook[kelly.cook@tceq.texas.gov]
Cc: Foster, Nichole[Foster.Nichole@epa.gov]; Loesel, Matthew[loesel.matthew@epa.gov]; R6 RRC[R6_RRC@epa.gov]
From: Carroll, Craig[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CF7900E73BFB429C9BF46DC3B22FC12C-CARROLL, CRAIG]
Sent: Sat 2/27/2021 6:33:07 PM (UTC)
Subject: Re: Draft ASPECT maps

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Saturday, February 27, 2021 8:44 AM
To: Carroll, Craig <Carroll.Craig@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: Re: Draft ASPECT maps

Thanks, Craig.

Sent from my iPhone

On Feb 27, 2021, at 8:36 AM, Carroll, Craig <Carroll.Craig@epa.gov> wrote:

Kelly,
Thanks for the clarifications. I did pass your responses below to the ASPECT staff last night.

Craig

Sent from my iPhone

On Feb 26, 2021, at 11:09 PM, Kelly Cook <kelly.cook@tceq.texas.gov> wrote:

Craig and Adam,
I included our answers in **red** below. Thank you for making this happen so quickly. You guys are so great to work with!!

From: Carroll, Craig <Carroll.Craig@epa.gov>
Sent: Friday, February 26, 2021 10:21 PM
To: Kelly Cook <kelly.cook@tceq.texas.gov>
Cc: Foster, Nichole <Foster.Nichole@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; R6 RRC <R6_RRC@epa.gov>
Subject: Fwd: Draft ASPECT maps

Kelly,

See questions below. Please advise as to how TCEQ would like issues below addressed. Thanks

Craig

Sent from my iPhone
Begin forwarded message:

From: "Taylor, Jillianne" <Taylor.Jillianne@epa.gov>
Date: February 26, 2021 at 9:59:33 PM CST
To: "Petersen, Chris" <petersen.chris@epa.gov>, "Foster, Nichole" <Foster.Nichole@epa.gov>

Cc: "Zehner, Warren" <zehner.warren@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>, "Loesel, Matthew" <loesel.matthew@epa.gov>, "Martin, John" <martin.john@epa.gov>, "Nguyen, Lyndsey" <Nguyen.Lyndsey@epa.gov>, "Carroll, Craig" <Carroll.Craig@epa.gov>

Subject: RE: Draft ASPECT maps

Hello Chris and Nicole,

We are working up our flight plans for this mission and we had a few questions that we hoped could get relayed back to the TCEQ for clarification.

1. Are there any specific RMP facilities that we should be focusing on? **No specific facility. Maybe focus priority on areas with larges grouping of facilities.** For example, the image below shows all of the RMP sites that ASPECT surveyed in the Beaumont area after Hurricane Laura last summer (the yellow pins mark each site, sorry they are a bit hard to see). We covered 38 facilities, and because of some delays due to inclement weather, this took us 3 days to complete. If the goal is to cover multiple sites in each of the areas identified in the maps provided by TCEQ, it will likely take us 2-3 days to cover each city, and would make it very difficult to cover more than one city in a given day, unless we prioritized a few sites.
2. Is the goal more oriented towards getting more broad surveillance in the areas identified on the maps? **Yes, more broad surveillance is desired.** If this is the case, we may be able to meet the goal of covering all 3 cities in a given day. Would it would be sufficient to fly over each block on the map with a goal of ~ 20% coverage, with no specific facility targets? **Yes**
3. Is there any information on specific chemicals of interest? **I think our main focus would be on VOCs, and identification of benzene if possible.** I've included our list of chemicals that are automatically detected by the ASPECT sensors. If we have information that there may be other chemicals present on a site that are not on this list, we can run extra checks in post-processing to look for those signatures. **This will be helpful. Thank you.**

<image002.jpg>

<image004.png>

We've looked at the forecast for tomorrow and right now it looks very likely that the cloud ceiling will be too low in the target locations for collecting chemical data until about 1200 CST. We will plan to take off around 10 AM with an estimated flight time to Beaumont of 2 hours. We will let you know if anything changes.

Please don't hesitate to reach out via email or phone if you have any questions.

Thank you all,
Jill

Jill Taylor
Atmospheric Scientist, ASPECT
CBRN Consequence Management Advisory Division
Environmental Protection Agency
1201 Elm St., Dallas, TX 75270

From: Petersen, Chris <petersen.chris@epa.gov>
Sent: Friday, February 26, 2021 7:04 PM
To: Taylor, Jillianne <Taylor.Jillianne@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: RE: Draft ASPECT maps

TCEQ only provided those maps and did not mentioned specific facilities. They wanted those areas monitored.

From: Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Sent: Friday, February 26, 2021 6:49 PM
To: Petersen, Chris <petersen.chris@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: RE: Draft ASPECT maps

Thank you, Chris! Do you know if they will be providing a list of facilities that they would like us to make sure we cover? GPS coordinates are very useful for us if they have them available.

Thank you,
Jill

From: Petersen, Chris <petersen.chris@epa.gov>
Sent: Friday, February 26, 2021 6:46 PM
To: Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>; Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: FW: Draft ASPECT maps

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Sent: Friday, February 26, 2021 6:41 PM
To: Carroll, Craig <Carroll.Craig@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>
Subject: FW: Draft ASPECT maps

Chris,
These are the areas, if possible, we would like for the ASPECT Flights. Thank you!!

From: Cynthia Gandee <Cynthia.Gandee@tceq.texas.gov>
Sent: Friday, February 26, 2021 6:15 PM
To: Kelly Cook <kelly.cook@tceq.texas.gov>
Cc: Jonathan Walling <jonathan.walling@tceq.texas.gov>
Subject: Draft ASPECT maps

These flyover maps are from FY20. Please let me know if you need anything else. Thanks for your help.

Cynthia

To: Loesel, Matthew[loesel.matthew@epa.gov]
From: Fisher, Bray[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=10293F3ABA4A4F138468DBA33DB48610-FISHER, KEL]
Sent: Sat 2/27/2021 2:13:55 PM (UTC)
Subject: FW: SOW ASPECT

Requesting ESF-10 assistance for ASPECT plane to deploy to conduct chemical detection and identification and map chemical plumes in the atmosphere over the Houston Ship Channel Industrial area, the Beaumont Industrial Complex and the Corpus Christi Industrial complex. (specific maps to be provided by TCEQ). Visible imagery should also be collected. Request that flyovers be conducted of each city twice per day (once at a minimum) beginning 2/27/2021 for a period not to exceed 7 days. Data and photographs should be evaluated and posted to electronic website.

From: Rhodes, James <james.rhodes@fema.dhs.gov>
Sent: Saturday, February 27, 2021 8:00 AM
To: Fisher, Bray <fisher.kelsey@epa.gov>
Subject: SOW ASPECT

Bray,

Please review the below SOW for the MA. Let me know if you have any questions.

In support of State of Texas request, as directed by and in coordination with FEMA, Environmental Protection Agency (EPA) will conduct from aerial platform(s) the technical analysis of potential impacted areas for oil and hazardous materials in support of FEMA disaster operations. This support is necessary to mitigate actual and potential threats to public health and safety. EPA response may include air, soil, or water contaminant detection as well as surveillance or monitoring of immediate public health and safety threats.

EPA is responsible for providing personnel and/or equipment necessary to accomplish the mission.

- MA task orders (MATOs) may be issued by FEMA for specific requirements, personnel, location(s), date(s), and duration of assignment(s).
- Agencies will be reimbursed for all eligible expenses pursuant to 44 CFR. Supporting documentation is required for reimbursement.
- All equipment and supply purchases must be coordinated with FEMA Project Manager. If approved, documentation is necessary to ensure reimbursement.
- Activation of agency command center(s), if required, must be coordinated with FEMA as a separate MA.
- The mission-assigned agency is responsible for ensuring that all activity is properly authorized, goods are received, services are provided, and that costs are reasonable and supported by documentation maintained by the respective agency
- MAs shall be considered for closure after 180 days with no financial activity in accordance with FEMA CFO Bulletin #157. For MAs still operationally open, requests for additional obligations may be withheld if no invoicing, ULO Validation, or additional justification has been provided.

James Rhodes
Emergency Management Specialist | Operations Integration Branch / Response Division | Region 6
Mobile: (202) 568-4048
James.rhodes@fema.dhs.gov

To: Loesel, Matthew[loesel.matthew@epa.gov]
Cc: Patel, Anish[patel.anish@epa.gov]; Eppler, David[Eppler.David@epa.gov]
From: Zehner, Warren[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CC2DADE75862478DAA2A5011BDACFC5F-ZEHNER, WARREN]
Sent: Sat 2/27/2021 4:43:22 AM (UTC)
Subject: Fwd: *** FEMA RRF, Request for Aspect Mission (ESF 10, EPA)
[FEMA RRF, Request for Aspect Mission, 02.26.2021.pdf](#)

FYSA
Warren

Sent from my iPhone

Begin forwarded message:

From: "Fisher, Bray" <fisher.kelsey@epa.gov>
Date: February 26, 2021 at 10:40:53 PM CST
To: R6 RRC <R6_RRC@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>, "Carroll, Craig" <Carroll.Craig@epa.gov>, "Foster, Nichole" <Foster.Nichole@epa.gov>, "Zehner, Warren" <zehner.warren@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>, "Mason, Steve" <mason.steve@epa.gov>
Subject: Fwd: *** FEMA RRF, Request for Aspect Mission (ESF 10, EPA)

Sent from my iPhone

Begin forwarded message:

From: "Hanson, Christine" <christine.hanson@fema.dhs.gov>
Date: February 26, 2021 at 10:27:21 PM CST
To: "Fisher, Bray" <fisher.kelsey@epa.gov>
Cc: R06-RRCC-OSC <R06-RRCC-OSC@fema.dhs.gov>, R06-RRCC-ESBD <r06-rrcc-esbd@fema.dhs.gov>, "Burns, Therron" <therron.burns@fema.dhs.gov>, "Walsh, Julia" <Julia.Walsh@fema.dhs.gov>, "Pagan, Lorraine" <lorraine.pagan@fema.dhs.gov>, "Christians, Judith" <judith.christians@fema.dhs.gov>, "Rhodes, James" <james.rhodes@fema.dhs.gov>, "Salters, Archie" <Archie.Salters@fema.dhs.gov>
Subject: Fwd: *** FEMA RRF, Request for Aspect Mission (ESF 10, EPA)

Bray,

We are in receipt of the ASPECT RRF from Texas (attached). The team will work this MA in the morning; per our conversation this evening, please confirm statement of work and cost estimate for a 7-day period of performance beginning Saturday, 27 February.

Please accept this email as a verbal authorization to proceed with the mission pending completion of the mission assignment.

As always, feel free to call with questions or to discuss.

V/r
Chris

Christine Mae Hanson
Branch Chief | Operations Integration Branch | FEMA Region 6
Office: 940.297.0129 | Mobile: 940.218.3445
christine.hanson@fema.dhs.gov

ED_005581A_00000372-00001

From: Millholland, Mary <Mary.Millholland@fema.dhs.gov>

Sent: Friday, February 26, 2021 10:19:02 PM

To: Bordelon, Denise <Denise.Bordelon@fema.dhs.gov>; Bricker, Cole <Cole.Bricker@fema.dhs.gov>; Christians, Judith <judith.christians@fema.dhs.gov>; Hanson, Christine <christine.hanson@fema.dhs.gov>; Ireland, Frank <Frank.Ireland@fema.dhs.gov>; Mabry, Christopher <christopher.mabry@fema.dhs.gov>; Megahee, Jamison <Jamison.Megahee@fema.dhs.gov>; Moran, Shannon <shannon.moran@fema.dhs.gov>; Pack, Eddie <Eddie.Pack@fema.dhs.gov>; Pagan, Lorraine <lorraine.pagan@fema.dhs.gov>; R06-RRCC-OSC <R06-RRCC-OSC@fema.dhs.gov>; Salters, Archie <Archie.Salters@fema.dhs.gov>; Thomas, Scott <Scott.Thomas3@fema.dhs.gov>; Tucker, Carl <Carl.Tucker@fema.dhs.gov>; Walsh, Julia <Julia.Walsh@fema.dhs.gov>; Weathers, Kent <Kent.Weathers@fema.dhs.gov>; Young, Laverne <Laverne.Young@fema.dhs.gov>

Subject: *** FEMA RRF, Request for Aspect Mission (ESF 10, EPA)

All:

Just received this request from state to execute as coordination with EPA has already begun.

Respectfully,

Mary Millholland OSC III

TX OPS Liaison | DR-4485-TX | Office of Response & Recovery

Cell: 202-340-8284

Mary.millholland@fema.dhs.gov<mailto:Mary.millholland@fema.dhs.gov>

Federal Emergency Management Agency
fema.gov

[Federal Emergency Management Agency]

This communication, along with any attachments, is covered by Federal and State law governing electronic communications and may contain confidential and legally privileged information. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution, use or copying of this message is strictly prohibited. If you have received this in error, please reply immediately to the sender and delete this message.

From: Gisela Ryan-Bunger <Gisela.Ryan-Bunger@tdem.texas.gov>

Sent: Friday, February 26, 2021 9:57 PM

To: Millholland, Mary <Mary.Millholland@fema.dhs.gov>; Bricker, Cole <Cole.Bricker@fema.dhs.gov>; michelle.havelka@tceq.texas.gov; Chris Earp <Chris.Earp@tdem.texas.gov>; Jones, Suzannah (TX) <suzannah.jones@tdem.texas.gov>; Country Weidler <Country.Weidler@tdem.texas.gov>

Subject: FEMA RRF, Request for Aspect Mission (ESF 10, EPA)

Mary / Cole: Apologies for the late RRF submission. I believe this request has already been coordinated with EPA.

Let me know if you have any questions. Thanks!

Gisela Ryan-Bunger

Division Chief - Response

Texas Division of Emergency Management

(O) 512-424-2271

(M) 512-203-0156

gisela.ryan-bunger@tdem.texas.gov

[X]

To: Loesel, Matthew[loesel.matthew@epa.gov]
Cc: Nguyen, Lyndsey[Nguyen.Lyndsey@epa.gov]; Martin, John[martin.john@epa.gov]
From: Taylor, Jillianne[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=50944BD17ADB440D98651290972C7224-TAYLOR, JIL]
Sent: Sat 2/27/2021 9:44:15 PM (UTC)
Subject: FW: ASPECT Status Update: Wheels up to Corpus Christi, Texas

Hey Matt,

The conditions are looking better down in Corpus. We are heading down there and are hopeful that we will be able to collect data on all of the planed sites before the light gets low.

Jill

From: Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>
Sent: Saturday, February 27, 2021 3:25 PM
To: Perovich, Gina <Perovich.Gina@epa.gov>; Argenta, Edward <Argenta.Edward@epa.gov>; Hudson, Scott <Hudson.Scott@epa.gov>; Taylor, Jillianne <Taylor.Jillianne@epa.gov>; Waltzer, Sam <Waltzer.Sam@epa.gov>; Martin, John <martin.john@epa.gov>
Subject: ASPECT Status Update: Wheels up to Corpus Christi, Texas

For internal status update:

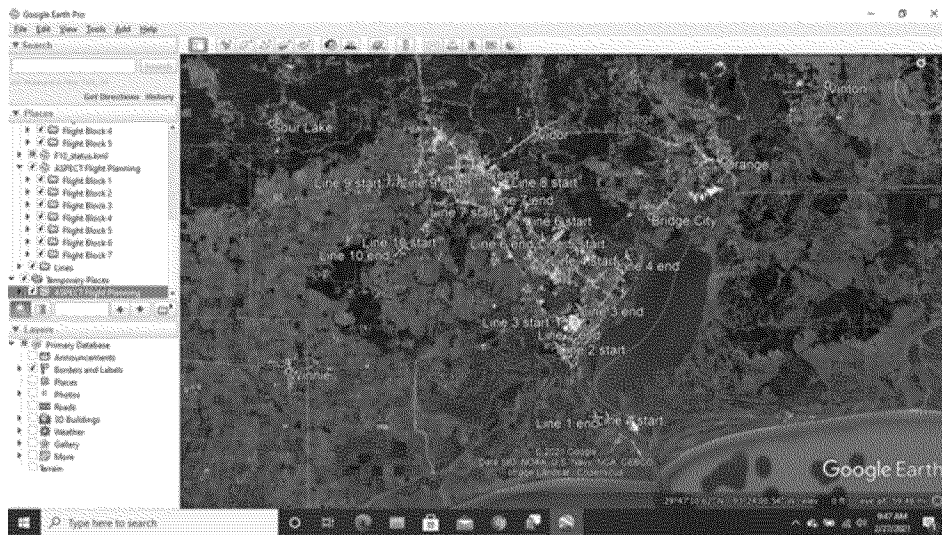
The ASPECT Plane is wheels up in Ellington, Texas (near Houston, Texas) headed to Corpus Christi, Texas for data collection.

Lyndsey Nguyen, M.S.
ASPECT Health Physicist
Environmental Protection Agency
CBRN Consequence Management Advisory Division
1201 Elm Street, 3rd Floor
Dallas, Texas 75270
Office: 214-665-3143
Cell: 702-373-3756

To: Loesel, Matthew[loesel.matthew@epa.gov]; david.cook@westonsolutions.com[david.cook@westonsolutions.com]
Cc: Nguyen, Lyndsey[Nguyen.Lyndsey@epa.gov]; Martin, John[martin.john@epa.gov]; Hudson, Scott[Hudson.Scott@epa.gov]
From: Taylor, Jillianne[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=50944BD17ADB440D98651290972C7224-TAYLOR, JIL]
Sent: Sat 2/27/2021 6:02:02 PM (UTC)
Subject: ASPECT Nearing Beaumont

Just wanted to give y'all a heads up that ASPECT is nearing the Beaumont area. Here is a screenshot of the planned flight lines – we will try to cover as many of the areas highlighted in the maps provided by TCEQ as we can in an hour so that we can try to fit data collection for all 3 cities in today.

It is looking like we will have some scattered/broken clouds in the area. We need to stay at about 2800 ft AGL for optimal chemical data collection, so we may be adjusting these lines in order to capture data as we can in between clouds. We'll know more once we have eyes on the scene.



Please let us know if there is any information we can provide you at this time. We will let you know when we have finished our first data collection line.

Thanks!
Jill

To: Loesel, Matthew[loesel.matthew@epa.gov]
Cc: Nguyen, Lyndsey[Nguyen.Lyndsey@epa.gov]
From: Taylor, Jillianne[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=50944BD17ADB440D98651290972C7224-TAYLOR, JIL]
Sent: Sun 2/28/2021 11:55:49 PM (UTC)
Subject: RE: ASPECT plan for tonight/tomorrow

Excellent, we will land, refuel, download data, then head back to Addison.

We detected very low level fugitive emissions (generally 1 ppm of less) at several locations in Corpus Christi.

	Location	Primary species	Site
1.	27.81 N -97.49 W	1-butene	Citgo Refinery and Chemicals
2.	27.82N - 97.42W	acetone(trace)	Nueces Bay Power Station
3.	27.81N -97.42W	various trace hydrocarbons	Flint Hills Resources, LP, East Plant
4.	28.81N -97.49W	butadiene (trace)	BTB Refining, LLC

From: Loesel, Matthew <loesel.matthew@epa.gov>
Sent: Sunday, February 28, 2021 5:09 PM
To: Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Cc: Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>
Subject: Re: ASPECT plan for tonight/tomorrow

We are good with you heading back tonight based on weather. Can you get me some more location info on the reading they had earlier? Thanks

Sent from my iPhone

On Feb 28, 2021, at 5:00 PM, Taylor, Jillianne <Taylor.Jillianne@epa.gov> wrote:

Hi Matt,

We are hitting twilight conditions, so we have instructed the pilots to land in Houston to refuel. We collected a decent amount of data in both Corpus and Houston today considering the weather conditions, so we will have a lot to share with you.

Did you ever get any further guidance from the state on whether they would like us to stay down in the gulf region and attempt to get do some flights tomorrow? It doesn't look like the forecast has changed – still a low cloud ceiling across all three cities, with scattered rain showers and potential for thunderstorms. We think it might make more sense for the crew to head back to Addison to save on cost and start back up the mission on Tuesday, but we can certainly stay down in Houston and reassess the situation tomorrow if that would be what the state prefers.

Thanks!
Jill

To: Taylor, Jillianne[Taylor.Jillianne@epa.gov]; Nguyen, Lyndsey[Nguyen.Lyndsey@epa.gov]
From: R6 RRC[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=9480C10FF2CA47EE9AE748E2F3A036B6-R6 RRC]
Sent: Sat 2/27/2021 2:58:23 PM (UTC)
Subject: FW: Draft ASPECT maps

Not sure if you saw this.

From: Carroll, Craig <Carroll.Craig@epa.gov>
Sent: Saturday, February 27, 2021 8:36 AM
To: Kelly Cook <kelly.cook@tceq.texas.gov>
Cc: Foster, Nichole <Foster.Nichole@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; R6 RRC <R6_RRC@epa.gov>; anthony.buck@tceq.texas.gov; Michelle Havelka <michelle.havelka@tceq.texas.gov>; Jonathan Walling <jonathan.walling@tceq.texas.gov>; Cynthia Gandee <cynthia.gandee@tceq.texas.gov>; Richard Chism <Richard.Chism@tceq.texas.gov>; Brandy Brooks <brandy.brooks@tceq.texas.gov>; Melinda Johnston <melinda.johnston@tceq.texas.gov>
Subject: Re: Draft ASPECT maps

Kelly,

Thanks for the clarifications. I did pass your responses below to the ASPECT staff last night.

Craig

Sent from my iPhone

On Feb 26, 2021, at 11:09 PM, Kelly Cook <kelly.cook@tceq.texas.gov> wrote:

Craig and Adam,
I included our answers in red below. Thank you for making this happen so quickly. You guys are so great to work with!!

From: Carroll, Craig <Carroll.Craig@epa.gov>
Sent: Friday, February 26, 2021 10:21 PM
To: Kelly Cook <kelly.cook@tceq.texas.gov>
Cc: Foster, Nichole <Foster.Nichole@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Adams, Adam <Adams.Adam@epa.gov>; R6 RRC <R6_RRC@epa.gov>
Subject: Fwd: Draft ASPECT maps

Kelly,

See questions below. Please advise as to how TCEQ would like issues below addressed. Thanks

Craig

Sent from my iPhone

Begin forwarded message:

From: "Taylor, Jillianne" <Taylor.Jillianne@epa.gov>
Date: February 26, 2021 at 9:59:33 PM CST
To: "Petersen, Chris" <petersen.chris@epa.gov>, "Foster, Nichole" <Foster.Nichole@epa.gov>
Cc: "Zehner, Warren" <zehner.warren@epa.gov>, "Adams, Adam" <Adams.Adam@epa.gov>, "Loesel, Matthew" <loesel.matthew@epa.gov>, "Martin, John" <martin.john@epa.gov>, "Nguyen, Lyndsey" <Nguyen.Lyndsey@epa.gov>, "Carroll, Craig" <Carroll.Craig@epa.gov>
Subject: RE: Draft ASPECT maps

Hello Chris and Nicole,

We are working up our flight plans for this mission and we had a few questions that we hoped could get relayed back to the TCEQ for clarification.

1. Are there any specific RMP facilities that we should be focusing on? **No specific facility. Maybe focus priority on areas with larges grouping of facilities.** For example, the image below shows all of the RMP sites that ASPECT surveyed in the Beaumont area after Hurricane Laura last summer (the yellow pins mark each site, sorry they are a bit hard to see). We covered 38 facilities, and because of some delays due to inclement weather, this took us 3 days to complete. If the goal is to cover multiple sites in each of the areas identified in the maps provided by TCEQ, it will likely take us 2-3 days to cover each city, and would make it very difficult to cover more than one city in a given day, unless we prioritized a few sites.
2. Is the goal more oriented towards getting more broad surveillance in the areas identified on the maps? **Yes, more broad surveillance is desired.** If this is the case, we may be able to meet the goal of covering all 3 cities in a given day. Would it would be sufficient to fly over each block on the map with a goal of ~ 20% coverage, with no specific facility targets? **Yes**
3. Is there any information on specific chemicals of interest? **I think our main focus would be on VOCs, and identification of benzene if possible.** I've included our list of chemicals that are automatically detected by the ASPECT sensors. If we have information that there may be other chemicals present on a site that are not on this list, we can run extra checks in post-processing to look for those signatures. **This will be helpful. Thank you.**

<image002.jpg>

<image004.png>

We've looked at the forecast for tomorrow and right now it looks very likely that the cloud ceiling will be too low in the target locations for collecting chemical data until about 1200 CST. We will plan to take off around 10 AM with an estimated flight time to Beaumont of 2 hours. We will let you know if anything changes.

Please don't hesitate to reach out via email or phone if you have any questions.

Thank you all,
Jill

Jill Taylor
Atmospheric Scientist, ASPECT
CBRN Consequence Management Advisory Division
Environmental Protection Agency
1201 Elm St., Dallas, TX 75270
Work Cell: 214-406-9896

From: Petersen, Chris <petersen.chris@epa.gov>
Sent: Friday, February 26, 2021 7:04 PM
To: Taylor, Jillianne <Taylor.Jillianne@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>
Cc: Zehner, Warren <zehner.warren@epa.gov>
Subject: RE: Draft ASPECT maps

TCEQ only provided those maps and did not mentioned specific facilities. They wanted those areas monitored.

From: Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Sent: Friday, February 26, 2021 6:49 PM

To: Petersen, Chris <petersen.chris@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>

Cc: Zehner, Warren <zehner.warren@epa.gov>

Subject: RE: Draft ASPECT maps

Thank you, Chris! Do you know if they will be providing a list of facilities that they would like us to make sure we cover? GPS coordinates are very useful for us if they have them available.

Thank you,
Jill

From: Petersen, Chris <petersen.chris@epa.gov>

Sent: Friday, February 26, 2021 6:46 PM

To: Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>; Taylor, Jillianne <Taylor.Jillianne@epa.gov>

Cc: Zehner, Warren <zehner.warren@epa.gov>

Subject: FW: Draft ASPECT maps

From: Kelly Cook <kelly.cook@tceq.texas.gov>

Sent: Friday, February 26, 2021 6:41 PM

To: Carroll, Craig <Carroll.Craig@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>

Subject: FW: Draft ASPECT maps

Chris,
These are the areas, if possible, we would like for the ASPECT Flights. Thank you!!

From: Cynthia Gandee <Cynthia.Gandee@tceq.texas.gov>

Sent: Friday, February 26, 2021 6:15 PM

To: Kelly Cook <kelly.cook@tceq.texas.gov>

Cc: Jonathan Walling <jonathan.walling@tceq.texas.gov>

Subject: Draft ASPECT maps

These flyover maps are from FY20. Please let me know if you need anything else. Thanks for your help.

Cynthia

Cc: R6 RRC[R6_RRC@epa.gov]; Foster, Nichole[Foster.Nichole@epa.gov]; Petersen, Chris[petersen.chris@epa.gov]; Zehner, Warren[zehner.warren@epa.gov]
To: Carroll, Craig[Carroll.Craig@epa.gov]
From: Loesel, Matthew[/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=F2136F67BD8644149EF4883722E4DA9A-LOESEL, MATT]
Sent: Sun 2/28/2021 3:56:50 PM (UTC)
Subject: Re: ASPECT

I will get it taken care of

Sent from my iPhone

On Feb 28, 2021, at 9:51 AM, Carroll, Craig <Carroll.Craig@epa.gov> wrote:

Doesn't the SSDMP need to be updated too now that we are collecting ASPECT data?
Sent from my iPhone

On Feb 28, 2021, at 9:13 AM, Loesel, Matthew <loesel.matthew@epa.gov> wrote:

Maps are with EU for the blurb. Once I have those I will send the report/maps and update unless you want me to send him the update now and the rest later

From: Carroll, Craig <Carroll.Craig@epa.gov>
Sent: Sunday, February 28, 2021 9:12 AM
To: Loesel, Matthew <loesel.matthew@epa.gov>
Cc: R6 RRC <R6_RRC@epa.gov>; Foster, Nichole <Foster.Nichole@epa.gov>; Petersen, Chris <petersen.chris@epa.gov>; Zehner, Warren <zehner.warren@epa.gov>
Subject: Fwd: ASPECT

Sent from my iPhone
Begin forwarded message:

From: Kelly Cook <kelly.cook@tceq.texas.gov>
Date: February 28, 2021 at 9:05:11 AM CST
To: "Zehner, Warren" <zehner.warren@epa.gov>, "Carroll, Craig" <Carroll.Craig@epa.gov>, "Petersen, Chris" <petersen.chris@epa.gov>
Subject: ASPECT

Good morning all,
I hope you're getting a chance to enjoy part of the weekend. I know I slept in this morning for the first time in a while.

When you have a chance, could you please check on the status of ASPECT data from yesterday. I'm happy to coordinate directly with ASPECT crew if you like. No rush, coffee first. Thanks!

Sent from my iPhone

Message

From: Taylor, Jillianne [Taylor.Jillianne@epa.gov]
Sent: 3/1/2021 2:32:43 AM
To: Martin, John [martin.john@epa.gov]
Subject: FW: Cost Estimate

Flag: Follow up

From: Adams, Mikeal <adams.mikeal@epa.gov>
Sent: Sunday, February 28, 2021 3:14 PM
To: R6 RRC <R6_RRC@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>; Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Subject: RE: Cost Estimate

Thank you!

Mike

Mike Adams
Resource Unit Leader/LOGS
Winter Storm Uri
U.S. EPA, Region 6
Dallas, TX
Office: 214-665-6711
Cell: 469-490-6893

From: R6 RRC <R6_RRC@epa.gov>
Sent: Sunday, February 28, 2021 3:12 PM
To: Adams, Mikeal <adams.mikeal@epa.gov>; Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>; Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Cc: R6 RRC <R6_RRC@epa.gov>
Subject: RE: Cost Estimate

There is one in the RRF. email train

ASPECT plane	\$11,000/day	7 days	\$77,000
2 pilots	\$1300@/day	X 2 7 days	\$18,200
2 EPA staff	\$1000@/day	X 2 7 days	\$14,000
TOTAL			\$109,200

From: Adams, Mikeal <adams.mikeal@epa.gov>
Sent: Sunday, February 28, 2021 3:09 PM
To: Nguyen, Lyndsey <Nguyen.Lyndsey@epa.gov>; Taylor, Jillianne <Taylor.Jillianne@epa.gov>
Cc: R6 RRC <R6_RRC@epa.gov>
Subject: Cost Estimate

Hello –

I have been off the clock since yesterday morning, and am catching up on email.

Has anyone asked you guys for a cost estimate for ASPECT for this mission?

Thanks –
Mike

Mike Adams
Resource Unit Leader/LOGS
Winter Storm Uri
U.S. EPA, Region 6
Dallas, TX
Office: 214-665-6711
Cell: 469-490-6893

Message

From: Taylor, Jillianne [Taylor.Jillianne@epa.gov]
Sent: 3/1/2021 9:13:36 PM
To: Martin, John [martin.john@epa.gov]
Subject: FW: ASPECT IGCE

From: Taylor, Jillianne
Sent: Monday, March 1, 2021 1:45 PM
To: Martin, John <martin.john@epa.gov>
Subject: ASPECT IGCE

Here is the original estimate from the RRF:

ASPECT plane	\$11,000/day	7 days	\$77,000
2 pilots	\$1300@/day	X 2 7 days	\$18,200
2 EPA staff	\$1000@/day	X 2 7 days	\$14,000
TOTAL			\$109,200

So, subtracting the cost for the 2 EPA staff, the total estimated cost to the region would be \$95,200.

We have run a more detailed cost estimate, and the following table shows the totals that we came up with. It is CMAD's policy not to charge the region for mob/demob costs, so the price highlighted in yellow would be the actual cost to the region.

Flight Crew Total		\$	106,093.28	Cost w/o	
Contingency	10%	\$	10,609.33	mob/demob	\$ 98,632.20
Total with Contingency		\$	116,702.60		